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UTILITY PATENT APPLICATION **TRANSMITTAL**

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Attorney Docket No.	12-1199	
First Inventor	Harvey L. Berger	A
Title	See 1 in Addendum	S. S.
Express Mail Label No	ET837519422US	98 1

(Only for new r	nonprovisional applications under 37 CFR 1.53(b))	Express Ma	II Label No.	,103/317-	12200		- ω⊂
A	PPLICATION ELEMENTS ter 600 concerning utility patent application contents.	ADDRES	s to:	Mail Stop Pate Commissione P.O. Box 1450 Alexandria VA	•		22
(Submit an a Applicant of See 37 CF Specificati (preferred a Descriptive - Cross Ref - Statement - Reference or a comp - Backgrour - Brief Sum - Brief Desc - Detailed E - Claim(s) - Abstract of Claim(s) - Abstract of E - Copy f (for cooling of the cooling of th	on [Total Pages 8] Irrangement set forth below) e title of the invention erence to Related Applications Regarding Fed sponsored R & D e to sequence listing, a table, uter program listing appendix nd of the Invention many of the Invention cription of the Drawings (if filed) Description of the Disclosure S) (35 U.S.C. 113) [Total Sheets 1] etion [Total Sheets 2] etion [Total Sheets 3] executed (original or copy) from a prior application (37 CFR 1.63(d)) entinuation/divisional with Box 18 completed) ELETION OF INVENTOR(S) ned statement attached deleting inventor(s) nee in the prior application, see 37 CFR 3(d)(2) and 1.33(b). tion Data Sheet. See 37 CFR 1.76	8. Nucleo (if applia.	Specificatio CD-R i. Paper Statements CCOMPANYI Assignment Pa 37 CFR 3.73(b (when there is English Transla Information Dis Statement (Dis Statement (Dis Statement (Dis Preliminary An Return Receip (Should be spe Certified Copy (if foreign prior Nonpublicatior (b)(2)(B)(i). Ap or its equivale Other:	m (Appendix, no Acid Seq ssary) leadable For Sequence OM or CD-R sequence OM or CD-R sequence of Priority Desiry Request unstitution.	uence Submis m (CRF) Listing on: (2 copies); or entity of above ICATION F sheet & docum X Pov Atto ent (if applicate (if applicate) ocument(s) dor 35 U.S.C. attach form P	ecopies PARTS ment(s)) wer of orney bies of IDS ations	
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Name (Print/Type	Noel Heal 1 1911	Registrati	ion No. (Attorne	y/Agent) 2	6,074 Date	09/16/2	2003
Signature	Noel Heal				Date	וסוופט [2003

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, use use of the complete of the complete of application form to the USPTO. Time will vary depending upon the individual case. Any comments on including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Addendum

1. BIPOLAR WAVEFORM MODULATION FOR ULTRA WIDEBAND (UWB) COMMUNICATION NETWORKS

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	for	·FY	20	03	

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1				
TOTAL AMOUNT OF PAYMENT	(\$) 780.00			

Complete if Known		
Application Number		
Filing Date	September 16, 2003	_
First Named Inventor	Harvey L. Berger	
Examiner Name	Unassigned	_
Art Unit	N/A	
Attorney Docket No.	12-1199	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)			
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The Commissioner is authorized to: (check all that apply)	1053 130 Non-English specification			
Charge fee(s) indicated below	1812 2,520 1812 2,520 For filing a request for ex	parte reexamination		
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1. BASIC FILING FEE Large Entity Small Entity	1252 410 2252 205 Extension for reply within			
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Code (\$)	1254 1,450 2254 725 Extension for reply within			
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SUBMITTED BY (Complete (if applicable) Name (Print/Type) Registration No. Noel F. Heal 26,074 Telephone 310-812-4910 (Attorney/Agent) Signature Sept. 16, 2003

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Addendum

Attachment 1

Northrop Grumman Space & Mission Systems Corp.

Practitioner's Docket No. 12-1199

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Harvey L. Berger, Gerald R. Fischer

Application No.:

Group No.: N/A

Filed: 09/16/2003

Examiner: Unassigned

For: BIPOLAR WAVEFORM MODULATION FOR ULTRA WIDEBAND (UWB)

COMMUNICATION NETWORKS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

"Express Mail" label number ET837519422US Date of Deposit 09/16/2003

I hereby state that the following attached papers or fee

Utility Patent Application Transmittal; Fee Transmittal in duplicate; New Patent Application; 1 Sheet Formal Drawings (Figures 1-3B); Declaration; and Assignment with PTO-1595 in duplicate

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Lorna L. Schott

Signature of person mailing paper or fee